



SERVICE MANUAL

D-X701 STEREO CASSETTE DECK

NOTE

For servicing D-X701, please refer to service manual for the D-705 with this manual, since most of the parts and circuits employed in D-X701 are in common with the D-705.

CAUTION

1. Parts identified by the \triangle symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

•SPECIFICATIONS

Track format	4-track/2-channel system
Tape speed	4.8 cm/sec.
Heads (3-head configuration)	
Play head	HIGH-Bs hard permalloy
Recording head	HIGH-Bs hard permalloy
Erase head	Double-gap HIGH-Bs ferrite
Motor	Capstan: Electronically Controlled DC Motor Reels: DC Motor
Wow/flutter	0.035% max (WRMS)
Fast forwarding (rewinding) time	Approx. 85 sec. (for C-60 tape)
Frequency response (-20 VU recording/playback)	
Normal tape (LH)	20 to 18,000 Hz (30 to 17,000 Hz ± 3 dB)
Chrome tape	20 to 20,000 Hz (30 to 18,000 Hz ± 3 dB)
Metal tape	20 to 21,000 Hz (30 to 20,000 Hz ± 3 dB)
Signal-to-noise ratio (recording/playback with metal tape)	
DOLBY NR OFF	Better than 60 dB
DOLBY-B NR ON	Better than 68 dB
DOLBY-C NR ON	Better than 74 dB

Erasure rate (metal tape)	More than 70 dB at 1 kHz
Recording bias frequency	105 kHz
Input sensitivity/Impedance	
LINE IN (REC)	70 mV/47 kohms
Power requirements	120/220/240V 50/60 Hz
For U.S.A. and Canada	120V (60 Hz)
Power consumption	30 watts
Dimensions	448 mm (17-11/16") W 111 mm (4-3/8") H 310 mm (12-1/4") D
Weight	6.0 kg (13.2 lbs) net 7.3 kg (16.1 lbs) packed

- Design and specifications subject to changes without notice for improvements.
- Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
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NOTE

1. The symbols, UL, CSA, SA, BS, UK, EU, AS, SEV, SS and XX <EXPORT> on the parts list and the schematic diagram mean followings respectively.
 - UL..... Manufactured for U.S.A market.
(Underwriters Laboratories approved model.)
 - CSA..... Manufactured for Canadian market.
 - SA..... Manufactured for South African market.
 - BS, UK..... Manufactured for United Kingdom market.
 - EU..... Manufactured for European market.
 - AS..... Manufactured for Australian market.
 - SEV..... Manufactured for Swiss market.
 - SS..... Manufactured for Saudi Arabia market.
 - XX <EXPORT> .. Standard Version.
 - NON MARK..... Common Parts.
2. Some printed circuit boards are not supplied assembled. To separate these in this service manual, the stock numbers are not indicated for these boards. However, stock numbers for individual parts are indicated.
3. Since some capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors and resistors, which was issued on June 1987.

4. Abbreviations in this service manual are as follows.

•Abbreviations List

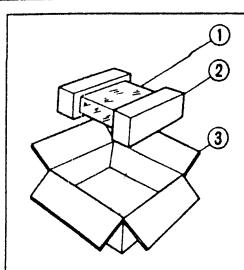
C.R.	: Carbon Resistor
S.R.	: Solid Resistor
Ce.R.	: Cement Resistor
M.R.	: Metal Film Resistor
F.R.	: Fusing Resistor
N.I.R.	: Non-Inflammable Resistor
A.R.	: Array Resistor
C.C.	: Ceramic Capacitor
C.T.	: Ceramic Capacitor, Temperature Compensation
E.C.	: Electrolytic Capacitor
E.L.	: Low Leak Electrolytic Capacitor
E.B.	: Bi-Polar Electrolytic Capacitor
E.B.L.	: Low Leak Bi-Polar Electrolytic Capacitor
Ta.C.	: Tantalum Capacitor
F.C.	: Film Capacitor
M.P.	: Metallized Paper Capacitor
P.C.	: Polystyrene Capacitor
G.C.	: Gimmie Capacitor
A.C.	: Array Capacitor
V.R.	: Variable Resistor
S.V.R.	: Semi Variable Resistor
SW.	: Switch
Chip R.	: Chip Resistor
Chip C.	: Chip Capacitor

NOTE

1. For block diagram, description of ICs and operation of mechanism, refer to the D-705 Service Manual.
2. On the parts list, the changed parts are specified by “#” mark.

1. PACKING LIST

Parts No.	Stock No.	Description
1	47859100	Vinyl Bag
#2	27130110	Styrofoam Packing
#3	27488400	Carton Case

**2. ACCESSORY LIST**

	Stock No.	Description
#	07193400 or 38103300	PJP Cord PJP Cord
#	49033200	D-X701/X501 Operating Instruction (*E-F-S)
#	49033300	D-X701/X501 Operating Instruction (*G-I-Sw)

***Note**

E-F-S: English-French and Spanish Version
G-I-Sw: German-Italian and Swedish Version

3. ADJUSTMENTS

3-1. Tape Speed Adjustment

Note:

1. Use Sansui Test Tape, SCT-S3K (3 kHz signal is recorded on the tape).
2. Connections are shown in Fig. 3-1.
3. Remove the cassette lid.
4. Set the MONITOR Switch to TAPE.
5. Set the OUTPUT volume to MAX position.

STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	Tape Speed Adj.	LINE OUT Frequency counter	Playback the TEST TAPE SCT-S3K	Turn semi-variable resistor as Fig. 3-2	3000Hz ± 45Hz	Use small screw driver

Fig. 3-1

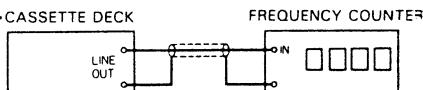
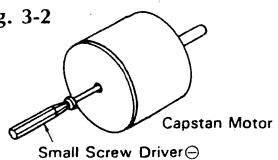


Fig. 3-2



3-2. Playback Adjustment

Note:

1. Before this adjustment, clean REC/P.B. head surface.
2. For this adjustment, use Sansui Test Tape, SCT-F10K, and SCT-L400.
3. Set the Dolby NR switch to OFF.

4. Set the MONITOR switch to TAPE.
5. Set the OUTPUT volume to MAX position.
6. Connections are shown in Fig. 3-3.

Fig. 3-3

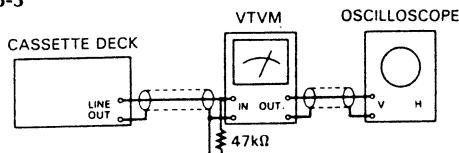
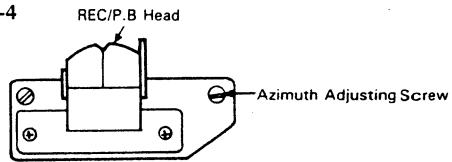


Fig. 3-4



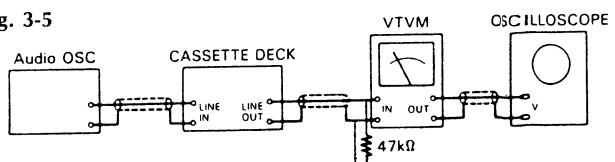
STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1.	REC/P.B. Head Adj.	LINE OUT VTVM and Scope	Playback the TEST TAPE SCT-F10K	Adjust the azimuth adjusting screw in Fig. 3-4.	MAX. Output both channels	After this adjustment, lock the screw with paint.
2.	Playback Level Pre Adj.	Between Point ④ (L-CH) / Point ⑤ (R-CH) and GND, VTVM and Scope	Playback the TEST TAPE SCT-L400	Adjust each VR4 (L-CH and R-CH, F-5328)	10mV ± 2dB	See F-5557 Parts Location on page 3. Adjust this step, when replacing VR4 (2kΩ S.V.R.) on F-5328 board.
3.	Playback Level Adj.	LINE OUT VTVM and Scope	Playback the TEST TAPE SCT-L400	Adjust each VR1 (L-CH and R-CH, F-5557)	500mV ± 2dB	

3-3. REC Level & Frequency Response Adjustment

Note:

1. Set the MONITOR switch to TAPE.
2. Set the BIAS volume to the mechanical center position.
3. Set the Dolby NR switch to OFF.
4. Set the OUTPUT volume to MAX position.
5. Set the REC LEVEL volume to MAX position.
6. Connections are shown in Fig. 3-5.

Fig. 3-5



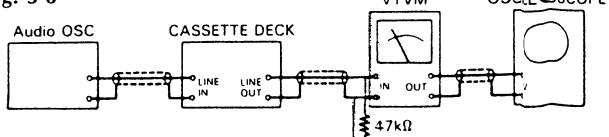
STEP	SUBJECT	INPUT SIGNAL	MEASURE OUTPUT	SETTING	ADJUSTMENT
1.	REC Level Adj.	Feed 1kHz from Audio S.G. into LINE IN.	LINE OUT, VTVM and Scope	Load the TEST TAPE SCT-SA. 1. Push the PAUSE, and REC knob. 2. Adjust the output level of Audio SG. for obtaining 200mV on VTVM. 3. Push the PAUSE knob, then record the 1kHz signal.	1. Adjust VR6 (L-CH and R-CH, F-5328) until output level 200mV ± 2dB in both channels are obtained.
2.	Frequency Response Adj.	Feed 1kHz 10mV and 10kHz 10mV, from Audio S.G. into LINE IN.	Same as above	Load the TEST TAPE SCT-SA. 1. Record the 1kHz and 10kHz signals.	1. Adjust VR7 (L-CH and R-CH, F-5328) until 1kHz and 10kHz output levels will be equal.
3.	METAL REC Level Adj.	Feed 1kHz from Audio S.G. into LINE IN.	LINE OUT, VTVM and Scope	Load the TEST TAPE SCT-MA. 1. Push the PAUSE, and REC knob. 2. Adjust the output level of Audio SG. for obtaining 200mV on VTVM. 3. Push the PAUSE knob, then record the 1kHz signal.	1. Adjust VR5 (L-CH and R-CH, F-5328) until output level 200mV ± 2dB in both channels are obtained.

3-4. Peak Level Indicator Adjustment

Note:

1. Set the OUTPUT volume to MAX position.
2. Connections are shown in Fig. 3-6.
3. Remove the F-5338 board

Fig. 3-6



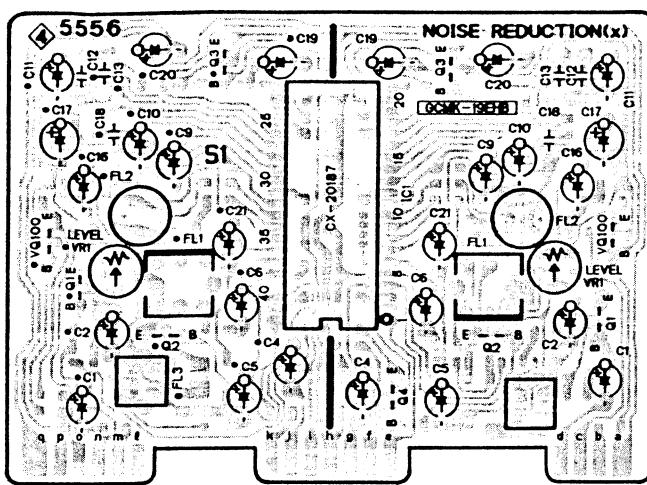
STEP	SUBJECT	INPUT SIGNAL	MEASURE OUTPUT	SETTING	ADJUSTMENT
1.	Peak Level Indicator Adjustment	Feed 1kHz, 100mV from S.G. into LINE IN.	LINE OUT, VTVM and Scope	Load the TEST TAPE SCT-SA. 1. Push on PAUSE, and REC knob. 2. Adjust the REC LEVEL knob for obtaining 500mV on VTVM.	1. Light the 0dB point on level indicator to adjust nVR1 (F-5338). 2. Adjust the REC LEVEL knob for obtaining 490mV on VTVM, then correct the 0dB point on level indicator again. 3. If not, adjust nVR1, until SETTING 1 - ADJUSTMENT 2 will be obtain.

4. PARTS LOCATION ON BOARD

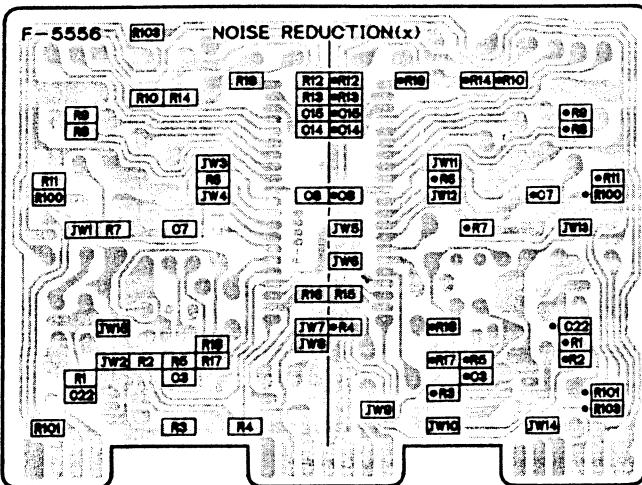
* For parts location on boards F-5328, F-5332, F-5334, F-5338, F-5339, F-5343, F-5344, F-5348 and F-5349, refer to D-705 Service Manual.

4-1. F-5556 Noise Reduction (Rec) Board

Component Side



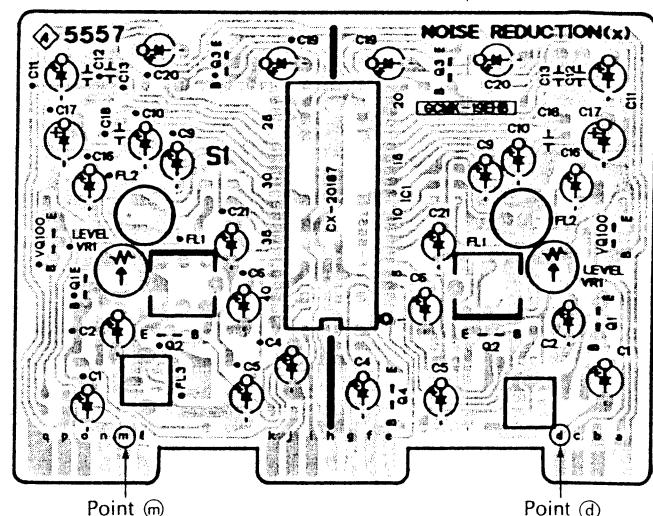
Pattern Side <Chip Parts>



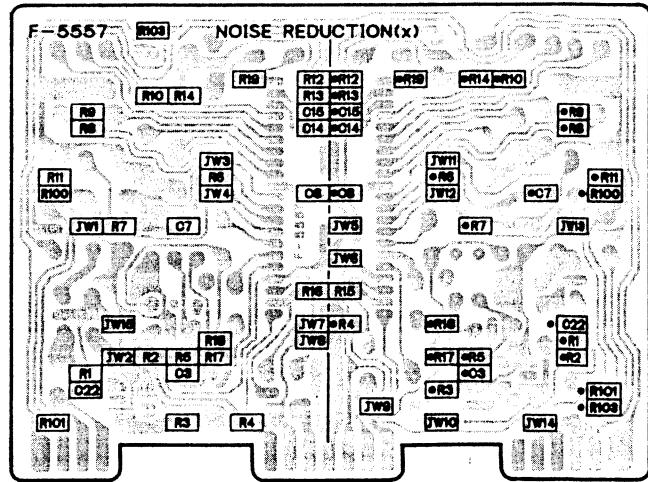
- On this board, the right channel is specified by “●” mark on top of the parts number.

4-2. F-5557 Noise Reduction (Playback) Board

Component Side



Pattern Side <Chip Parts>



- On this board, the right channel is specified by “●” mark on top of the parts number.

5. PARTS LIST OF BOARD

5-1. F-5328 Main Board <Stock No. 00972501>

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
• Transistor mQ1	03085201	2SD438	vQ37	48223100	DTC114TS
mQ2	03085201	2SD438	vQ38	46367101	2SC2603
• IC mIC1	07183500 or 48053500	μPC78M05H NJM7805A	or 48058801	48058801	2SC1740S
mIC2	48341300 or 48355500	NJM7812A L7812	vQ101	46577801	2SC2320L
mIC3	48470500	μPC7812H	• FET vFT1	46723601 or 46723602	2SK389-BL 2SK389-V
mIC4	48470100	μPC78M12H	• IC vIC1	46673800	M5218P
mIC4	48471000	μPC7912H	• Diode vD1 ~ 8	03117600 or 46086000	1S2473T77 1S1588TP-3
• Diode △ mD1	46273600	DBB10B	• Zener Diode vDZ ~ 3	46113500 or 46113600	05Z11-X 05Z11-Y
△	or 46273700	DBB10C	vDZ4	46108800	05Z2.4-X
△	or 48192000	DBB10E	vDZ101	46111800	05Z6.2-Y
△	or 48192100	DBB10G	vC6 ~ 8	48674300	220μF 25V E.C.
△ mD2	46273600	DBB10B	vC14	48102000	10μF 16V E.B.
△	or 46273700	DBB10C	vC15	48103000	0.22μF 50V E.B.
△	or 48192000	DBB10E	vC20	48683200	22μF 22V E.C.
△	or 48192100	DBB10G	vC22	48683200	22μF 22V E.C.
mD3, 4	03117600 or 46086000	1S2473T77 1S1588TP-3	vXO1	48373600	OSC Block BO-1
△ mD5	03117700	10E-2	vFL1	46179000	Filter Trap
• Zener Diode mDZ1	46116000	05Z24-Y	vL1	48121100	Inductor 1.2mH
mDZ2	46115100	05Z18-Y	#vVR4	48199400	2kΩ (B) S.V.R., P.B Pre level adj.
mDZ3	46111800	05Z6.2-Y	vVR5	48199800	50kΩ (B) S.V.R., METAL Rec level adj.
△ mR6	46247500	3.3Ω 1W N.I.R.	vVR6	48199700	20kΩ (B) S.V.R., Rec level adj.
mC5	48508000	5600μF 35V E.C.	vVR7	48199900	100kΩ (B) S.V.R., Freq. response adj.
mC12	08402500	100μF 25V E.C.	vRL1	11005100 46527800	Relay 221D012-P
oJ1	46371500	4P Terminal, LINE IN, OUT	• Transistor wQ1	46614101	2SC3243
• Transistor vQ1	46367101 or 48058801	2SC2603 2SC1740S	wQ2	46359701	2SA952
vQ2	48183400	DTA114YS	wQ3, 4	46367101 or 48058801	2SC2603 2SC1740S
vQ3	48171600	DTA114YS	wQ5	46359801	2SC2001
vQ4	46367101 or 48058801	2SC2603 2SC1740S	wQ6, 7	46367101 or 48058801	2SC2603 2SC1740S
vQ5 ~ 10	46367101 or 48058801	2SC2603 2SC1740S	wQ8	46367001	2SA1115
vQ11, 12	48223100	DTA114TS	wQ9	46367101 or 48058801	2SC2603 2SC1740S
vQ13	46614101	2SC3243	wQ10 ~ 13	46367001 or 46392001	2SA1115 2SA1175
vQ14 ~ 17	46367101 or 48058801	2SC2603 2SC1740S	wQ14 ~ 17	46719900	DTC124ES
vQ18	48183400	DTA114YS	wQ18	46367101 or 48058801	2SC2603 2SC1740S
vQ19	48171600	DTA114YS	wQ19	46367001	2SA1115
vQ20	46367101 or 48058801	2SC2603 2SC1740S	• IC wIC1	46948000	TC9310N-050
vQ21, 22	46367001 or 46392001	2SA1115 2SA1175	wIC2	46149600	BA6208
vQ23 ~ 25	46367101 or 48058801	2SC2603 2SC1740S	wIC3	48370300	M50763-412SP
vQ26	46367001 or 46392001	2SA1115 2SA1175	wIC4	46671500	LB1291
vQ27	46367101 or 48058801	2SC2603 2SC1740S	wXO1	46396200	Ceramic Element CSB400P
vQ28	46367001 or 46392001	2SA1115 2SA1175	• Diode wD1 ~ 8	03117600 or 46086000	1S2473T77 1S1588TP-3
vQ29	46367101 or 48058801	2SC2603 2SC1740S	wR48	46348900	4.7kΩX8 1/8W A.I.
vQ30	48183400	DTA114YS	#wR49	48773200	4.7kΩX8 1/8W A.I.
vQ31, 32	46367101 or 48058801	2SC2603 2SC1740S			
vQ33	46367101 or 48058801	2SC2603 2SC1740S			
vQ34, 35	46367101 or 48058801	2SC2603 2SC1740S			
vQ36	46367001 or 46392001	2SA1115 2SA1175			

5-2. F-5332 Tape Counter Display & Control SW. Board <Stock No. 00972601>

Parts No.	Stock No.	Description
•IC nIC1	46671100	BA6146
nFL1	48345600	FL. Display Tube CP5262GR
•LED nLD1	07250900	TLG-123A, PLAY
nLD2	07251000	TLY-123, PAUSE
nLD3	46176900	TLS-123, REC
oS1	48306900	Push SW., PAUSE
oS2	48306900	Push SW., PLAY
oS3	48306900	Push SW., REC MUTE
oS4.	48306900	Push SW., REC
oS5	48306900	Push SW., REW
oS6	48306900	Push SW., FF
oS7	48306900	Push SW., STOP
oS8	48370000	Push SW., DOLBY NR, MONITOR
oS9	48369900	Push SW., AMPS, MEMORY, RESET
oS10	46178400	Slide SW., TIMER REC/PLAY
vVR1	48493100	10kΩ V.R., REC LEVEL
vVR2	48370200	10kΩ V.R., OUTPUT Level
vVR3	48399800	100kΩ (B) V.R., BIAS
•Diode wD9 ~ 13	03117600 or 46086000	1S2473T77 1S1588TP-3

5-3. F-5334 PHONES Jack Board

Parts No.	Stock No.	Description
oJ2	46265700	Jack, PHONES

5-4. F-5338 Phones Amp. & Level Indicator Drive Board <Stock No. 00972801>

Parts No.	Stock No.	Description
•Transistor nQ1 ~ 3	46367101 or 48058801	2SC2603 2SC1740S
•Diode nD1, 2	03117600 or 46086000	1S2473T77 1S1588TP-3
nVR1	48199900	100kΩ (B) S.V.R., Level indicator
•Transistor vQ39, 40	46367101 or 48058801	2SC2603 2SC1740S
vQ41	46367001 or 46392001	2SA1115 2SA1175
•IC vIC2	46673800	M5218P

5-5. F-5339 Power SW. Board

Parts No.	Stock No.	Description
ΔpC1	46943200	0.01μF 400V C.C.
ΔpS1	46413900	Push SW., POWER

5-6. F-5343 Tape Selector SW. Board

Parts No.	Stock No.	Description
tSW1	48368200	Push SW., half, REC Prevention
tSW2	48368200	Push SW., tape sel. HIGH, METAL

5-7. F-5344 Photo Coupler Board

Parts No.	Stock No.	Description
tPH1	48372500	Photo Coupler GP2L04-B

5-8. F-5348 Reel Motor Board

Parts No.	Stock No.	Description
	46737500	Reel Motor

5-9. F-5349 Plunger Solenoide Board

Parts No.	Stock No.	Description
tPS1	47292610	Plunger Solenoid
•Diode tD1	03111600	1S2473

5-10. # F-5556 Noise Reduction (Rec) Board

<Stock No. 01013801>

Parts No.	Stock No.	Description
•Transistor xQ2	46367101 or 48058801 or 46367301	2SC2603 2SC1740S 2SC2458
xQ3	46367101 or 48058801 or 46367301	2SC2603 2SC1740S 2SC2458
xQ4	46719900	DTC124ES
•IC xIC1	48590000 or 48590001	CX20187-H CX20187-L
xFL1 xFL2	48363600 48193300	Dolby Filter TF-10 Dolby Filter (SQ)

5-11. # F-5557 Noise Reduction (Playback) Board

<Stock No. 01013901>

Parts No.	Stock No.	Description
•Transistor xQ1	46367101 or 48058801 or 46367301	2SC2603 2SC1740S 2SC2453
xQ4	46719900	DTC124ES
•IC xIC1	48590000 or 48590001	CX20187-H CX20187-L
xFL2 xFL3	48193300 48366300	Dolby Filter (SQ) Trap Filter

6. PARTS LIST OF CASSETTE MECHANISM ASS'Y

* For exploded view of cassette mechanism, refer to the D-705 Service Manual.

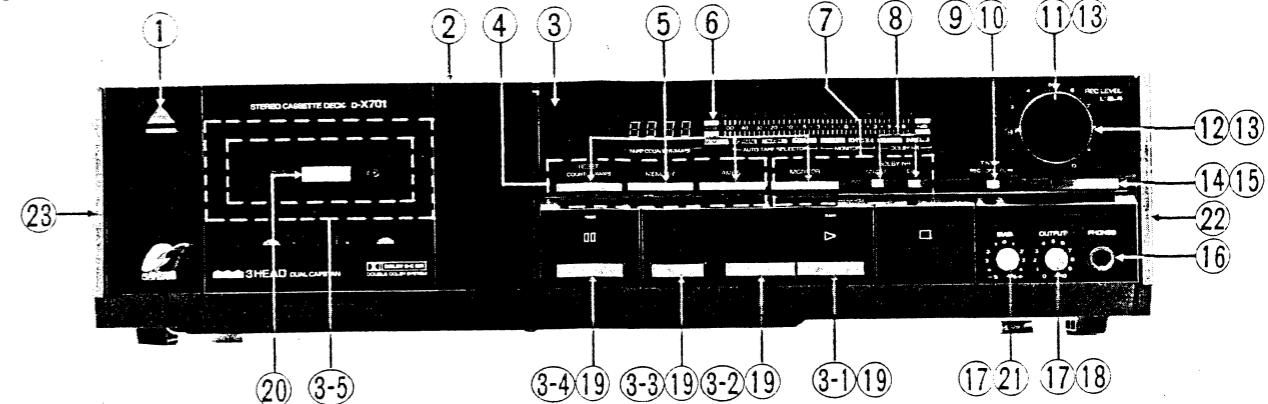
Parts No.	Stock No.	Description
1	48366100	Rec and Playback Head
2	00423900	Bind Head Screw, M2x4
3	27127210	Azimuth Spring Pin
4	27119310	Spring, azimuth
5	27127300	Azimuth Screw, 2x8
6	27127400	Screw, M2x5
7	48366000	Erase Head
8	00420900	Bind Head Screw, M2x12
9	47404900	Steel Ball
10	27183600	Spring, head base
11	27083100	Washer, 1.6
#12	27122710	Sprocket
#13	27122610	Spring, reel gear
14	27123000	Reel Gear
15	27184600	Reel Gear (TU)
16	27182900	Washer
17	47404800	Slit Washer, 1.6x3.5
18	27124410	Idler Gear
19	27120300	Switch Arm (A)
20	27120400	Switch Arm (B)
21	27120500	Switch Arm (C)
#22	27119130	Spring, brake
23	47420900	Plastic Tack
#24	27119810	Brake Arm
25	27135000	Nylon Washer, M2.2
26	47404700	Nylon Washer, D2.5
27	476688600	Spring, plunger solenoide
28	00489000	E Type Washer, D=2
29	27126700	Pinch Roller Ass'y (TU)
30	27119200	Spring, pinch roller (TU)
31	27162700	Washer
32	27126600	Pinch Roller Ass'y (S)
33	27119000	Spring, pinch roller
34	27127100	Spring, head slide
#35	49236200	Capstan Motor
36	00449100	Pan Head Screw, M3x6
37	27120800	Bushing
38	27078300	Screw
39	27120600	Pulley
40	46737500	Reel Motor
41	48371600	Bind Head Screw, M2.6x3
42	00421200	Bind Head Screw, M2.6x4
43	27119900	Belt
44	27118800	Flywheel (TU) Ass'y
45	47530000	Spring, flywheel
46	47404600	Washer, 2.5x4
47	27118700	Flywheel (S) Ass'y
48	47281610	Lock Arm (A)
49	47283840	Assist Gear (A)
50	47292610	Plunger Solenoid
51	47497100	Washer
52	47530000	Spring
53	27124310	Arm (A)
54	27126500	Washer
#55	27230300	Reel Motor Gear
56	47293810	Arm (B)
57	46731200	Flanged Tapping Screw, M2.6x8
58	47644500	Spring, eject

7. OTHER PARTS

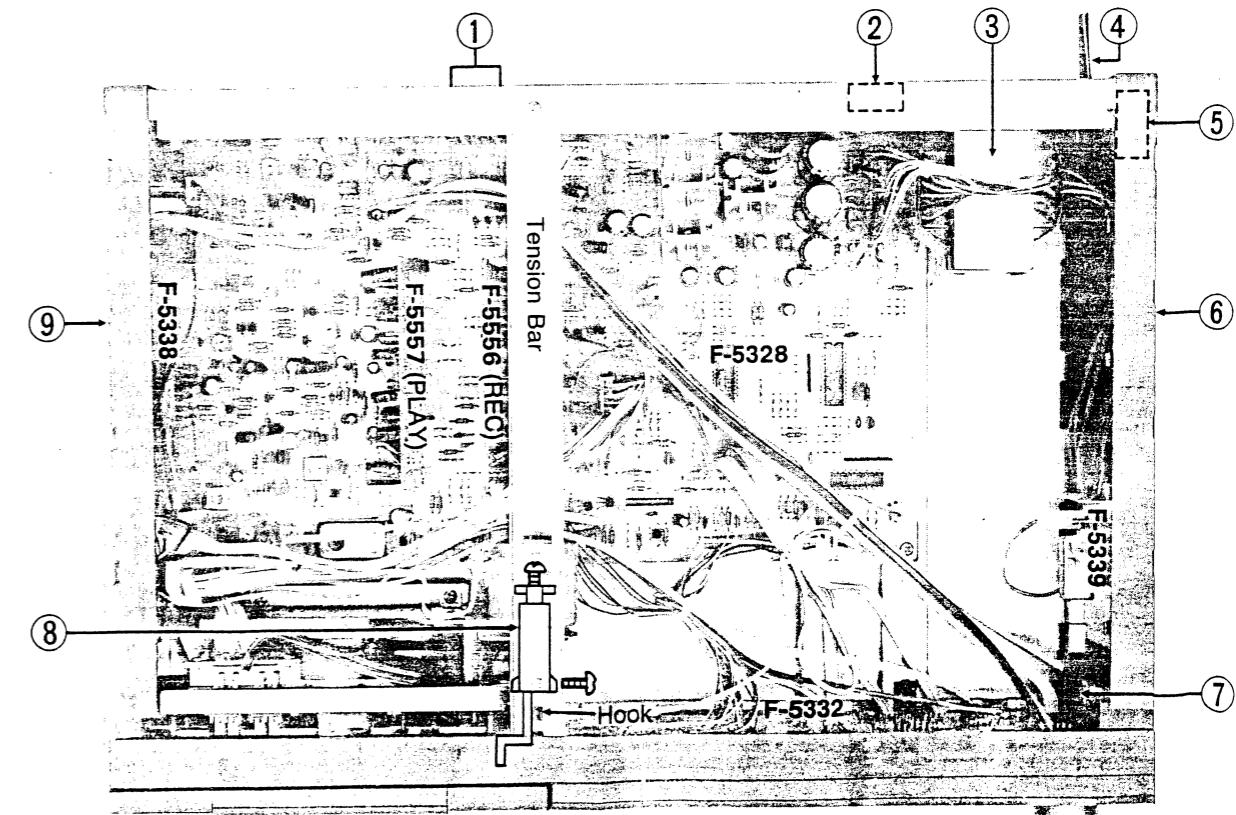
Parts List <Front View>

Parts No.	Stock No.	Description
# 1	27488700	Lid Ass'y
# 2	27486700	Bonnet
# 3	27487700	Front Panel Ass'y
3-1	27133300	Push Knob, FF
3-2	27133400	Push Knob, REW
# 3-3	27488600	Push Knob, REC
# 3-4	27497300	Push Knob, REC MUTE
# 3-5	27141520	Cassette Holder Ass'y
4	48369900	Cassette SW., AMPS, MEMORY, RESET
5	27150500	Push Knob, AMPS, MEMORY, RESET
6	48345600	FL. Display Tube
7	48370000	Push SW., DOLBY NR, MONITOR
8	27150400	Push Knob, DOLBY NR
9	46178400	Slide SW., TIMER REC/PLAY
10	27127700	Slide Knob, TIMER REC/PLAY
#11	27486300	Knob, REC LEVEL (L)
#12	27486400	Knob, REC LEVEL (R)
13	48493100	10kΩ V.R., REC LEVEL
△14	46413900	Push SW., POWER
#15	27498900	Push Knob, POWER
16	46265700	Jack, PHONES
17	27128000	Knob, OUTPUT
18	48370200	10kΩ V.R., OUTPUT, BIAS
19	48306900	Push SW., PAUSE, PLAY, REC, REC MUTE, REW, FF, STOP
20 (nLD4)	48389900	LED Ass'y (SLF-401C)
21	48399800	100kΩ (B) V.R., BIAS
#22	27487300	Dress Side Panel (R)
#23	27487400	Dress Side Panel (L)

•Front View



•Top View

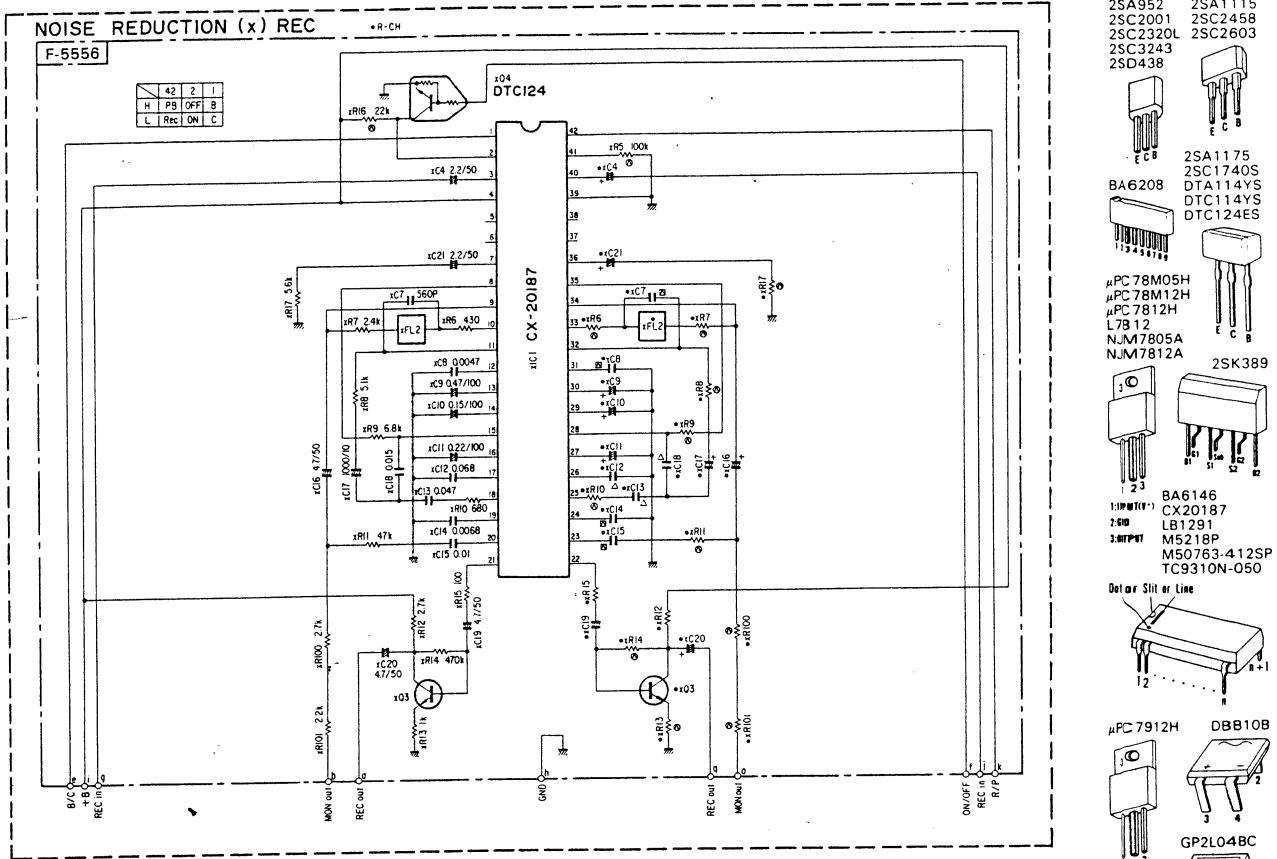


8. SCHEMATIC DIAGRAM

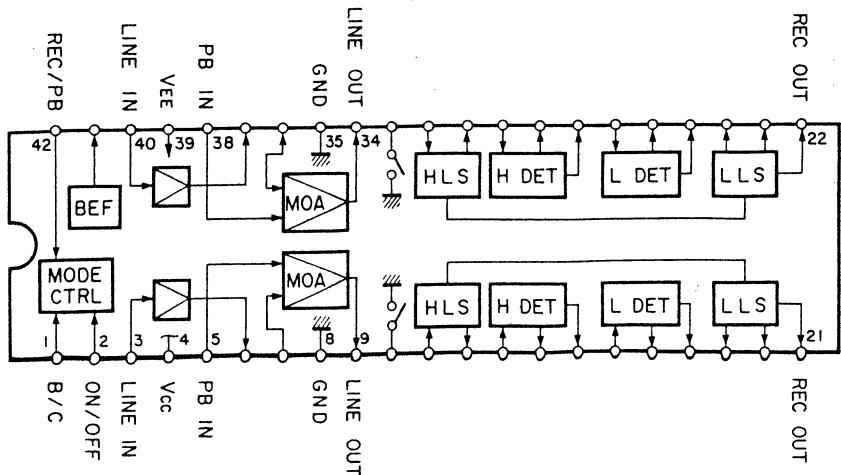
* Design and specifications subject to change without notice for improvement.
 * La présentation et les spécifications sont susceptibles d'être modifiées sans préavis pour des suites d'améliorations éventuelles.
 * Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

* For schematic diagrams audio amp. section and logic control section,
 refer to the D-705 Service Manual.

8-1. F-5556 Noise Reduction (Rec) Section

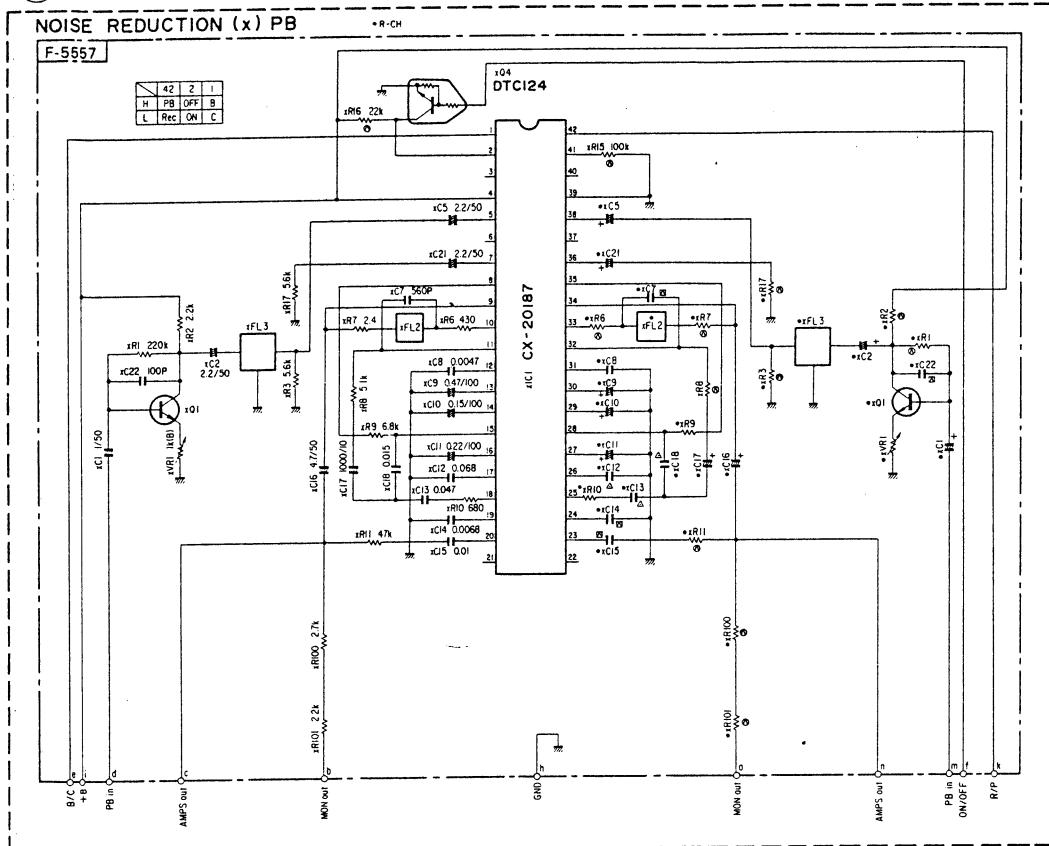


•CX20187 (Dolby Noise Reduction)



8-2. F-5557 Noise Reduction (Playback) Section

(3)



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